Calculus Warm Up #4-4

The rate at which people enter an auditorium for a rock concert is modeled by the function R,

$R(t) = 1380t^2 - 675t^3$, for $0 \le t \le 2$ hours.

R(t) is measured in people per hour.

No one is in the auditorium at time t = 0. Doors close and concert begins at time t = 2.

a) How many people are in the auditorium when the concert begins?

b) Find the time when the rate at which people enter the auditorium is a maximum. Justify your answer.

Yesterday's Classwork:

2002 FR - B, # 6

(Blue)

6a) 5 km

b) -6 km/hr.

c) $\frac{17}{5}$ radians/hr.

Today's classwork

BC MC - A Practice test

No calculator

Things we still need to learn:

#7, 10, ~~13~~, 17, 26

derivatives of parametric eq'

HW:

Look over 10.1 - 10.4 assignments for tomorrow's group quiz.

Work on the MC Practice Test.